VELUE ARBOR

UNIVERSITY OF TORONTO

Office of the Vice-President, Research and Associate Provost

Ethics Review Office

Office Use Only Protocol Number:

AMENDMENT REQUEST FORM

This form is to be submitted with amendments to <u>previously approved</u> protocols. Revised procedures should not be implemented until ethics approval has been received.

1. TITLE OF RESEARCH PROJECT				
Cardiovascular Toxicity of Concentrated Ambient Fine, Ultrafine and Coarse Particles in Controlled Human Exposures				
U of T Protocol reference number: #20362 Date of most recent approval:June 25, 2007 for next expiry date of June 24, 2008				
2. INVESTIGATOR INFORMATION				
Investigator:				
Title: Dr. Name: Frances Silverman				
Department: Gage Occupational and Environmental Health Unit				
Mailing address: 223 College St. Toronto, ON M5T 1R4				
Phone: (416) 978-5883 Fax: (416) 978-2608 Email: frances.silverman@utoronto.ca				
Faculty Supervisor/Sponsor:				
Title: Name:	Personnel Number:			
Department:				
Mailing address:				
Phone: Fax: Email:				
3. LOCATION(S) WHERE THE RESEARCH WILL BE University of Toronto Hospital □ I specify site(s) School board or community agency □ specify site Community within the GTA □ specify site(s) International □ specify site(s) Other □ specify site(s)				
The University of Toronto has recently reached an agreement with the University-Affiliated Teaching Hospitals, regarding ethics review of hospital-based research. Based on this				

The University of Toronto has recently reached an agreement with the University-Affiliated Teaching Hospitals, regarding ethics review of hospital-based research. Based on this agreement, certain hospital-based research is now exempt from ethics review at the University of Toronto. If your research is based at a University-Affiliated Teaching Hospital please consult the following document to determine whether or not your research requires review at the University of Toronto https://www.research.utoronto.ca/ethics/eh_where_tahsn.html.

3. PROPOSED CHANGES

a) Please describe the proposed study amendment or modification in the space provided below. A copy of the complete protocol with the changes indicated in bold text should be submitted with this form. Please specify if it is a **minor** (e.g. administrative change) or **major** (e.g. addition of study method) change.

Approval is requested for the following minor amendments: After discussion and exchange with our collaborators at Harvard and the funding agency – the US EPA, we have added some points of clarification. We stated in the cover letter of an amendment to St. Michael's Hospital REB and in our initial expedited application (May 9, 2007) to your board that we were requesting "An increase in the exposure concentration of coarse particles (from 150 to 400 µg/m3) and fine particles (from 150 to 500 µg/m3). These would be maximum levels that we would not go above." The point that these were indeed maximum levels was not clear, and furthermore we did not specify the actual target levels over the 2-hour exposure. The target levels would be 50% of the maximums and both the target and maximums are levels similar to those used by other researchers in the U.S. doing similar types of controlled human exposure studies with coarse and fine particles without adverse subject reactions.
As well we would like to make an addition to the protocol to add collection of urine samples pre, post and 24 hours post exposure for measurements of oxidative stress. The attached revised protocol and consent forms have been amended to reflect these changes.
These amendments are also being submitted to St. Michael's Hospital REB.
b) Will the proposed amendment change the overall purpose or objective of the study? ☐Yes ☐ No If Yes , a new protocol may be requested by the REB.
c) Will the proposed amendment affect the vulnerability of the participant group or the research risk? Yes No If Yes , please indicate the new overall risk level on the Risk Matrix:
d) What follow-up action do you recommend for study participants who are already enrolled in the study?
☐ Inform study participants ☐ Revise consent/assent forms (please attach a copy with the changes) ☐ Other (please describe) Subject recruitment and exposure has not started yet

4. RISK MATRIX: REVIEW TYPE BY GROUP VULNERABILITY AND RESEARCH RISK

Information about how to use the risk matrix can be found on the following webpage: http://www.research.utoronto.ca/ethics/eh forms.html. Please check one:

Medium	High
1	2
ÿ⊟	5 ⊢
5=	
	Medium 1 2 2

Risk level = 1: Expedited Review

Risk level = 2 or 3:

Full Review

5. SIGNATURES

My signature certifies that the above information is correct and that no unapproved procedures will be used in this study.

Signature of Investigator:	Date: July 3, 2007
AND (if applicable)	
Signature of Faculty Supervisor/Sponsor: (for student or supervised research only)	Date:

UT Ethics Review Office - Amendment Request Form Version Date: February 1, 2007

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